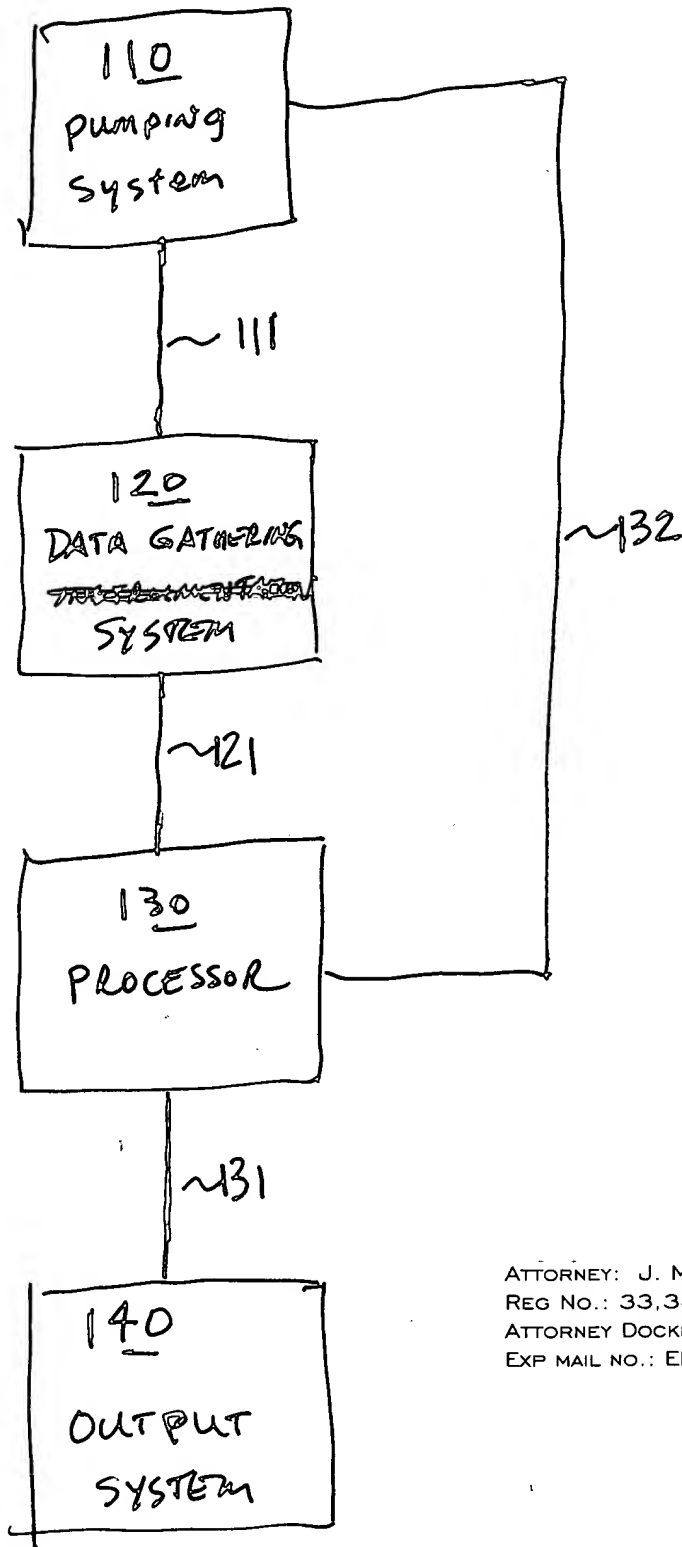


FIG. 1

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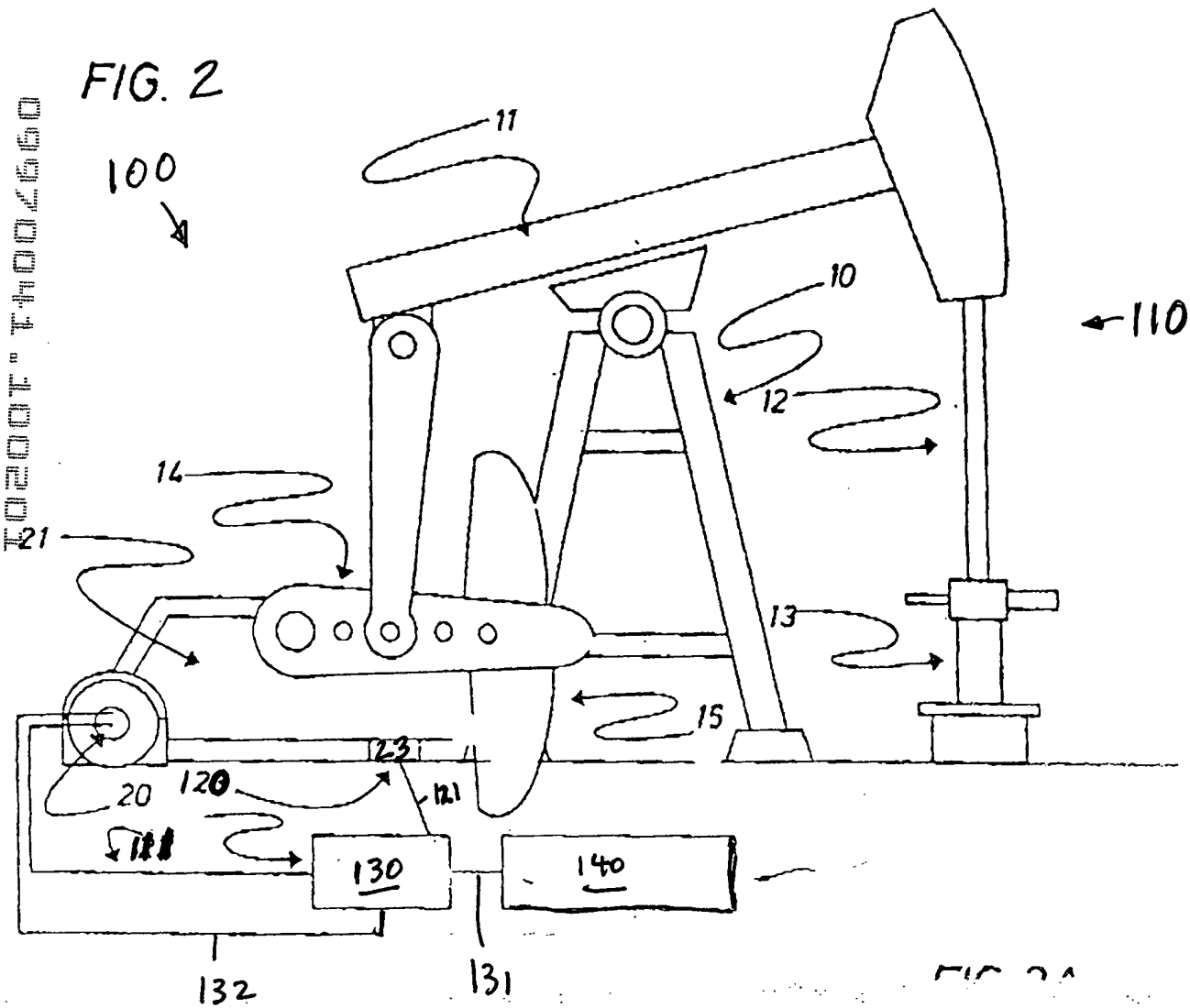
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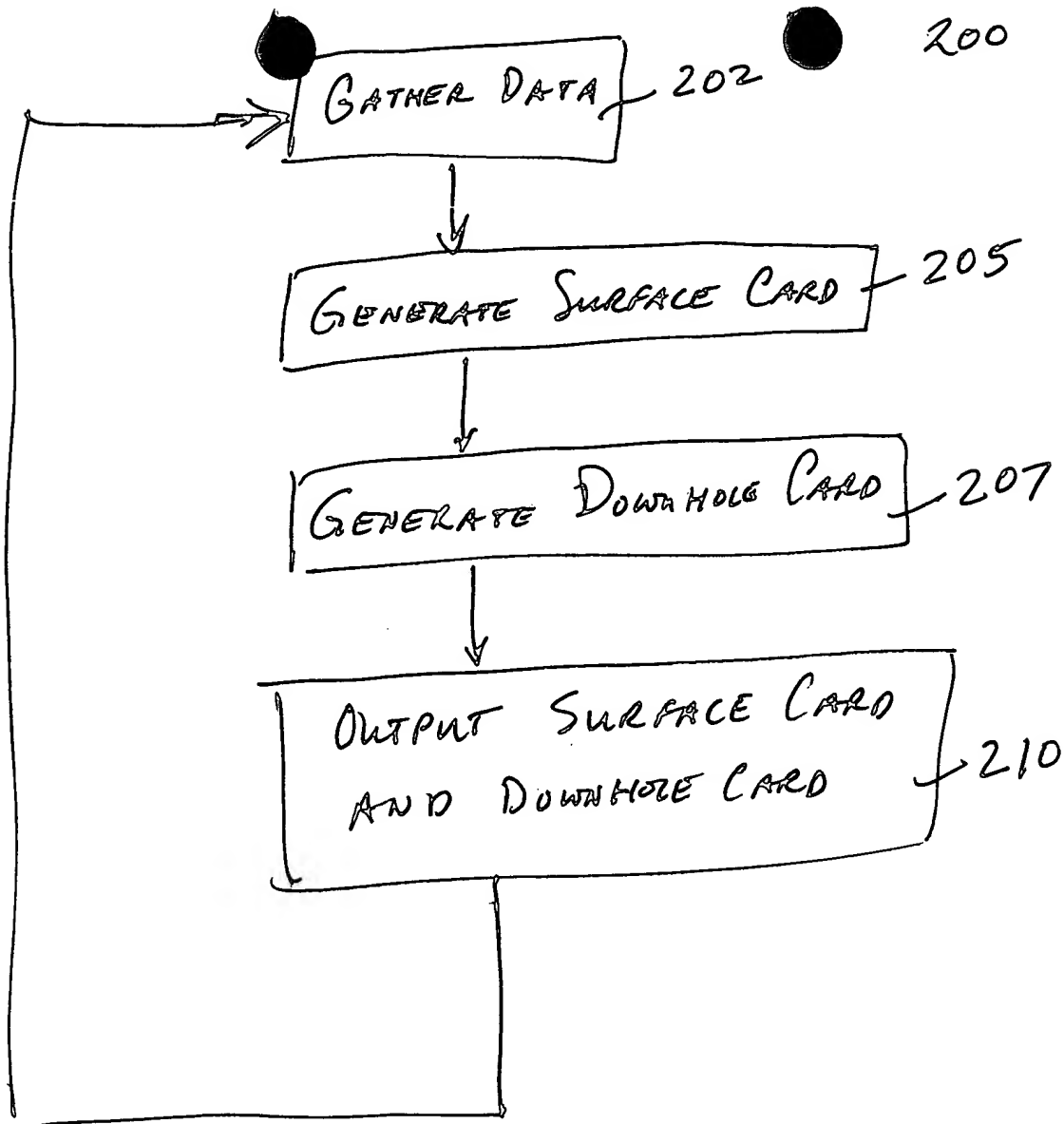
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FIG. 2



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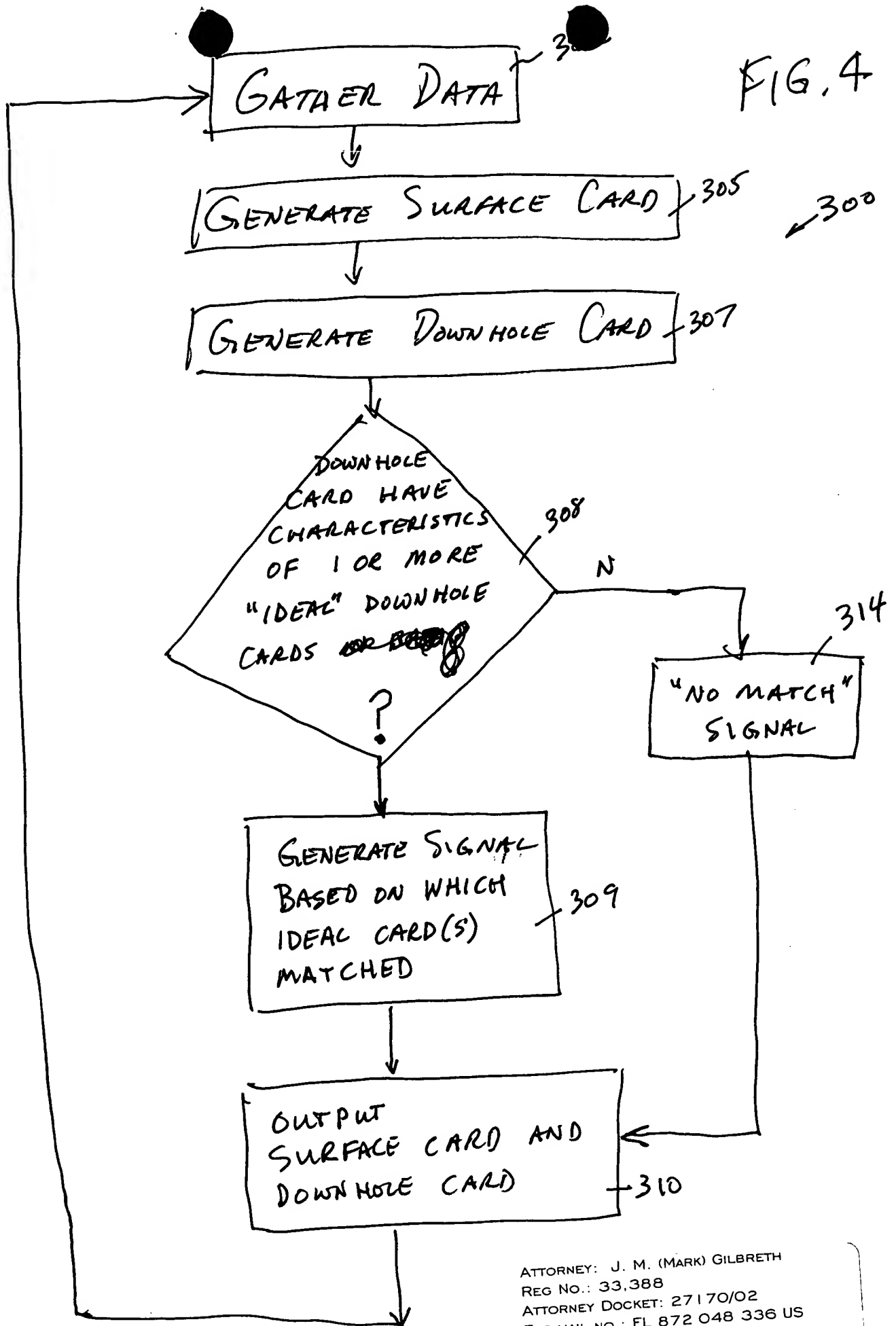


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FIG. 3

FIG. 4



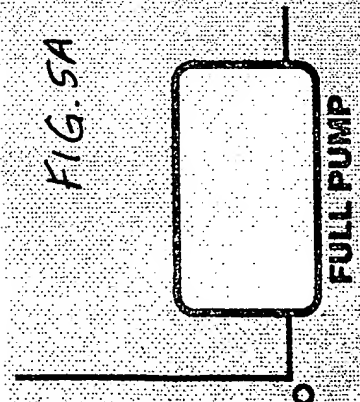


FIG. 5A

FULL PUMP

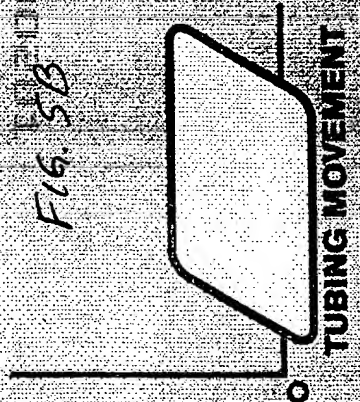


FIG. 5B

TUBING MOVEMENT

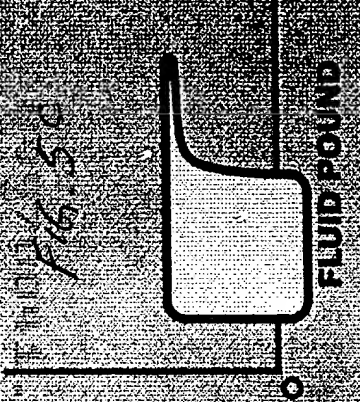


FIG. 5C

FLUID POUND

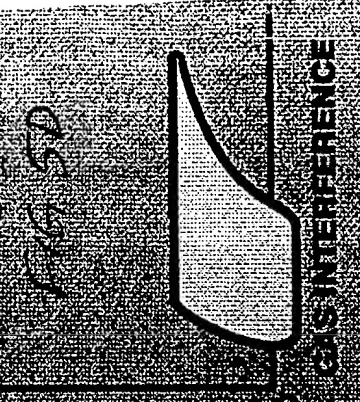


FIG. 5D

GAS INTERFERENCE

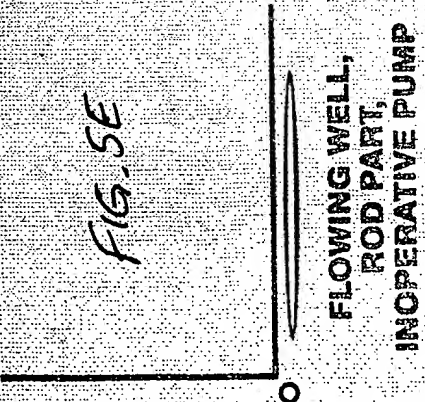


FIG. 5E

FLOWING WELL,
ROD PART,
INOPERATIVE PUMP

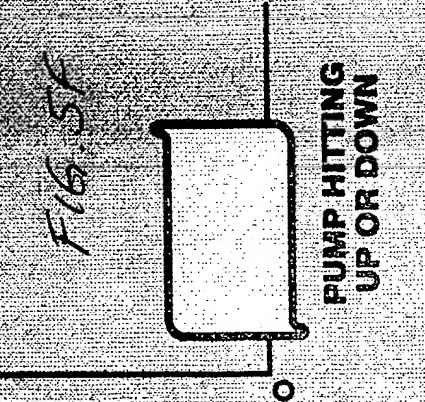


FIG. 5F

PUMP HITTING
UP OR DOWN

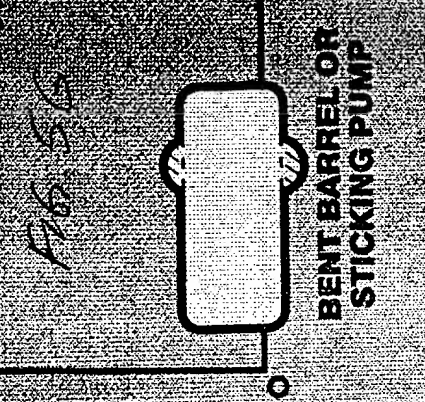


FIG. 5G

BENT BARREL OR
STICKING PUMP

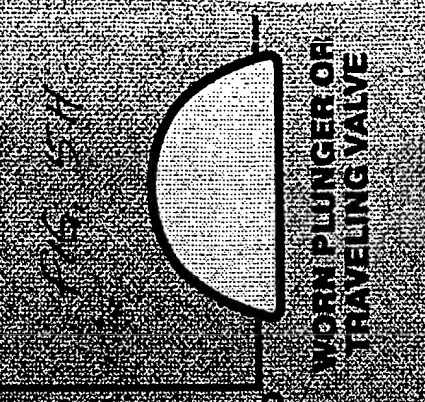


FIG. 5H

WORN PLUNGER OR
TRAVELING VALVE

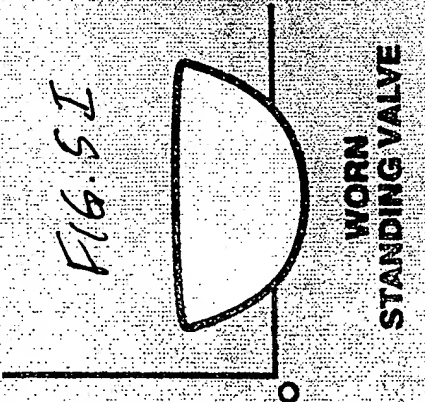


FIG. 5I

WORN
STANDING VALVE

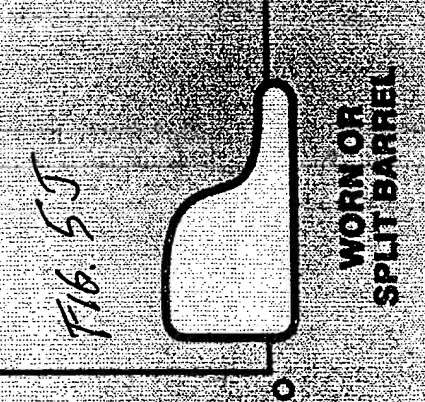


FIG. 5J

WORN OR
SPLIT BARREL

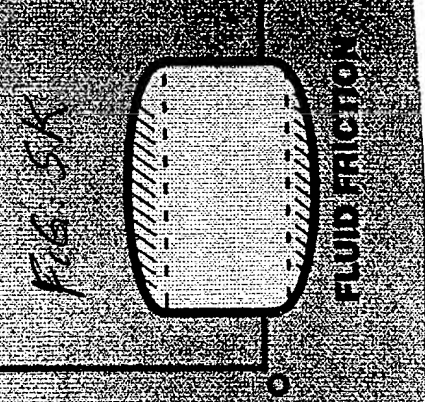


FIG. 5K

FLUID FRICTION

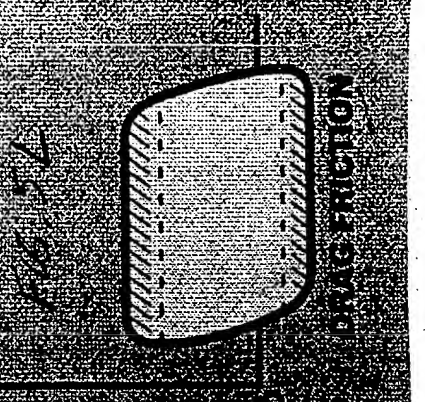


FIG. 5L

DRAG FRICTION

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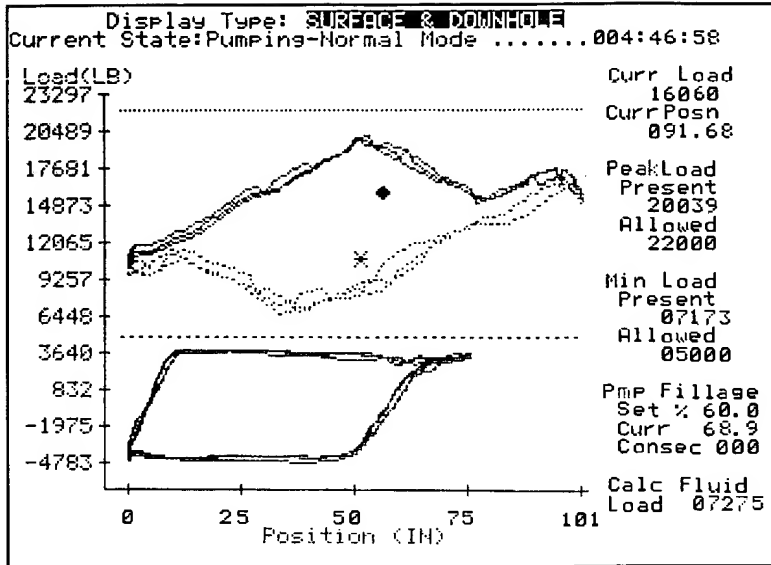


FIG. 6

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